

CONTENTS/SOMMAIRE

JANUARY/JANVIER

ARTICLES

- N. Machado, N. Goulet, and C. Gariépy** U-Pb geochronology of reactivated Archean basement and of Hudsonian metamorphism in the northern Labrador Trough 1-15
- Russell L. Hall** New Bathonian (Middle Jurassic) ammonite faunas from the Fernie Formation, southern Alberta 16-22
- A. Turek, R. Keller, W. R. Van Schmus, and W. Weber** U-Pb zircon ages for the Rice Lake area, southeastern Manitoba 23-30
- Michael Church, Rolf Kellerhals, and Terry J. Day** Regional clastic sediment yield in British Columbia 31-45
- Paul G. Lhotka and Bruce E. Nesbitt** Geology of unmineralized and gold-bearing iron formation, Contwoyto Lake - Point Lake region, Northwest Territories, Canada 46-64
- M. Ritz and Y. Bellion** Geologic sections across the onshore Senegal-Mauritania basin derived from geoelectric studies 65-73
- Charles E. Mitchell and Walter C. Sweet** Upper Ordovician conodonts, brachiopods, and chronostratigraphy of the Whittaker Formation, southwestern District of Mackenzie, N.W.T., Canada 74-87
- Stavros I. Kalogeropoulos and Steven D. Scott** Mineralogy and geochemistry of an Archean tuffaceous exhalite: the Main Contact Tuff, Millenbach mine area, Noranda, Quebec 88-105
- J. E. King and H. Helmstaedt** Deformational history of an Archean fold belt, eastern Point Lake area, Slave Structural Province, N.W.T. 106-118
- Eric Lee Johnson and Susan M. Swapp** The geochemistry and structural significance of a set of Middle Precambrian diabase dikes from the Highland Range, southwestern Montana 119-128
- D. Baudet, J. D. Aitken, and M. Vanguetaine** Palynology of uppermost Proterozoic and lowermost Cambrian formations, central Mackenzie Mountains, northwestern Canada 129-148
- Richard E. Morlan** Paleocological implications of Late Pleistocene and Holocene microtine rodents from the Bluefish Caves, northern Yukon Territory 149-156
- Ghislain Tourigny, Claude Hubert, Alex C. Brown, and Robert Crépeau** Structural control of gold mineralization at the Bousquet mine, Abitibi, Quebec 157-175
- Georgia Pe-Piper and Bosko D. Loncarevic** Offshore continuation of Meguma Terrane, southwestern Nova Scotia 176-191

NOTES

- W. J. Vreeken, R. W. Klassen, and R. W. Barendregt** Davis Creek silt, an Early Pleistocene or Late Pliocene deposit in the Cypress Hills of Saskatchewan 192-198
- Éric Mercier** Événements tectoniques d'origine compressive dans le Protérozoïque du nord de la Cordillère canadienne (montagnes Ogilvie, Yukon) 199-205

Instructions to authors

iii

Recommandations aux auteurs

v

FEBRUARY/FÉVRIER

ARTICLES

- S. C. Zoltai** Late Quaternary volcanic ash in the peatlands of central Alberta 207-214
- Ralph Kretz, Peter Jones, and Ron Hartree** Grenville metagabbro complexes of the Otter Lake area, Quebec 215-230
- Larry S. Lane, Edward D. Ghent, Mavis Z. Stout, and Richard L. Brown** P-T history and kinematics of the Monashee Décollement near Revelstoke, British Columbia 231-243
- John J. W. Rogers and Elaine J. Callahan** Diapiric trondhjemites of the western Dharwar craton, southern India 244-256
- Robert J. Fulton, Barry G. Warner, Helen J. Kubiwi, and René A. Achard** Geology and paleoecology of early Holocene lacustrine deposits in the Columbia River valley near Fauquier, southern British Columbia 257-265
- David G. E. Liverman, N. R. Catto, and N. W. Rutter** Laurentide glaciation in west-central Alberta: a single (Late Wisconsinan) event 266-274
- Kwok-Choi Ng and Brian Jones** Sedimentology and diagenesis of Upper Mississippian to Lower Permian strata, Talbot Lake area, Jasper National Park, Alberta 275-295
- Julie E. Gales, Ben A. van der Pluijm, and Rob Van der Voo** Paleomagnetism of the Lawrenceton Formation volcanic rocks, Silurian Botwood Group, Change Islands, Newfoundland 296-304
- François Marillier, Charlotte E. Keen, Glen S. Stockmal, Garry Quinlan, Harold Williams, Stephen P. Colman-Sadd, and Sean J. O'Brien** Crustal structure and surface zonation of the Canadian Appalachians: implications of deep seismic reflection data 305-321

NOTES

- Zhang Pengyuan, Zhu Mu, and Song Wu** Middle Proterozoic (1200–1400 Ma) microfossils from the Western Hills near Beijing, China 322–328
- D. Pillet, M. G. Bonhomme, J. L. Duthou et M. Chenevoy** Chronologie Rb/Sr et K/Ar du granite peralcalin du lac Brisson, Labrador central, Nouveau-Québec 328–332
- Michael R. Gipp and David J. W. Piper** Chronology of Late Wisconsinan glaciation, Emerald Basin, Scotian Shelf 333–335

DISCUSSIONS

- D. M. Cruden and Lu Z-y.** The geomorphic impact of the catastrophic October 1984 flood on the planform of Squamish River, southwestern British Columbia: Discussion 336
- Edward J. Hickin and Henry M. Sickingabula** The geomorphic impact of the catastrophic October 1984 flood on the planform of Squamish River, southwestern British Columbia: Reply 337

ERRATUM

- R. A. F. Grieve and J. Alexopoulos** Erratum: Microscopic planar features in quartz from Scollard Canyon, Alberta, and the Cretaceous–Tertiary boundary event 338

Results of geoscience research in the Canadian Nuclear Fuel Waste Management Program Résultats de recherches géoscientifiques du Programme canadien de gestion des déchets de combustible nucléaire

GAC symposium / AGC symposium May 9, 1986 / Le 9 mai 1986 Ottawa, Ont., Canada

- J. S. Scott and R. A. Gibb** Results of geoscience research in the Canadian Nuclear Fuel Waste Management Program: Introduction / Résultats de recherches géoscientifiques du Programme canadien de gestion des déchets de combustible nucléaire : introduction 341–344
- P. A. Brown and N. A. C. Rey** Statistical analysis of the geological–hydrogeological conditions within part of the Eye–Dashwa Pluton, Atikokan, northwestern Ontario 345–356
- G. F. D. McCrank, D. C. Kamineni, R. B. Ejeckam, and R. Sikorsky** Geology of the East Bull Lake gabbro–anorthosite pluton, Algoma District, Ontario 357–375
- R. J. Wetmiller and M. G. Cajka** Tectonic implications of seismic activity recorded by the northern Ontario seismograph network 376–386
- D. Stone, D. C. Kamineni, A. Brown, and R. Everitt** A comparison of fracture styles in two granite bodies of the Superior Province 387–403
- A. Brown, N. M. Soonawala, R. A. Everitt, and D. C. Kamineni** Geology and geophysics of the Underground Research Laboratory site, Lac du Bonnet Batholith, Manitoba 404–425

MARCH/MARS

ARTICLES

- K. L. Buchan, K. D. Card, and F. W. Chandler** Multiple ages of Nipissing Diabase intrusion: paleomagnetic evidence from the Englehart area, Ontario 427–445
- Kenneth D. Collerson, Malcolm T. McCulloch, and Allan P. Nutman** Sr and Nd isotope systematics of polymetamorphic Archean gneisses from southern West Greenland and northern Labrador 446–466
- Hironobu Hyodo and David J. Dunlop** Multicomponent magnetizations in Nipissing diabase near Temagami, Ontario, and structural and thermal history of the Grenville Front 467–478
- Brian F. Windley** Anorogenic magmatism and the Grenvillian Orogeny 479–489
- T. K. Kyser, M. R. Wilson, and G. Ruhrmann** Stable isotope constraints on the role of graphite in the genesis of unconformity-type uranium deposits 490–498
- H. E. MacLellan and R. P. Taylor** Geology and geochemistry of the Burnthill Granite and related W–Sn–Mo–F mineral deposits, central New Brunswick 499–514
- William J. Devlin** Stratigraphy and sedimentology of the Hamill Group in the northern Selkirk Mountains, British Columbia: evidence for latest Proterozoic – Early Cambrian extensional tectonism 515–533
- A. J. Hogg, J. J. Fawcett, J. Gittins, and M. P. Gorton** Cyclical variation in composition in continental tholeiites of East Greenland 534–543
- Michel Laurin and Robert R. Reisz** Taxonomic position and phylogenetic relationships of *Colobomycter pholeter*, a small reptile from the Lower Permian of Oklahoma 544–550

Willem J. Vreeken Late Quaternary events in the Lethbridge area, Alberta	551-560
M. D. Thomas and C. Willis Gravity modelling of the Saint George Batholith and adjacent terrane within the Appalachian Orogen, southern New Brunswick	561-576
Trevor Bell, Robert J. Rogerson, and Flemming Mengel Reconstructed ice-flow patterns and ice limits using drift pebble lithology, outer Nachvak Fiord, northern Labrador	577-590
David J. Mossman and Craig H. Place Early Permian fossil vertebrate footprints and their stratigraphic setting in megacyclic sequence II red beds, Prim Point, Prince Edward Island	591-605

NOTES

James H. Seigny and Philip S. Simony Geometric relationship between the Scrip Nappe and metamorphic isograds in the northern Adams River area, Monashee Mountains, British Columbia	606-610
R. M. F. Kempster, D. B. Clarke, P. H. Reynolds, and A. K. Chatterjee Late Devonian lamprophyric dykes in the Meguma Zone of Nova Scotia	611-613

APRIL / AVRIL

Dates of issue, Volume 25, 1988 / Dates de publication, volume 25, 1988	i
---	---

ARTICLES

D. Takherist et A. Lesquer Mise en évidence d'importantes variations régionales du flux de chaleur en Algérie	615-626
Pierre J. H. Richard, Jean J. Veillette et Alain C. Larouche Palynostratigraphie et chronologie du retrait glaciaire au Témiscamingue : évaluation des âges ¹⁴ C et implications paléoenvironnementales	627-641
Markes E. Johnson and Rong Jia-yu Middle to Late Ordovician rocky bottoms and rocky shores from the Manitoulin Island area, Ontario	642-653
Brian Jones Calcite rafts, peloids, and micrite in cave deposits from Cayman Brac, British West Indies	654-664
Greg H. Mack and T. Jerzykiewicz Provenance of post-Wapiabi sandstones and its implications for Campanian to Paleocene tectonic history of the southern Canadian Cordillera	665-676
John A. Percival A regional perspective of the Quetico metasedimentary belt, Superior Province, Canada	677-693
John F. Slack and Paul R. Coad Multiple hydrothermal and metamorphic events in the Kidd Creek volcanogenic massive sulphide deposit, Timmins, Ontario: evidence from tourmalines and chlorites	694-715
D. C. Peck and T. E. Smith The geology and geochemistry of an Early Proterozoic volcanic-arc association at Cartwright Lake: Lynn Lake greenstone belt, northwestern Manitoba	716-736
Peter C. Lightfoot and Anthony J. Naldrett Assimilation and crystallization in basic magma chambers: trace-element and Nd-isotopic variations in the Kerns sill, Nipissing diabase province, Ontario	737-754
R. Kerrich Source processes for Archean Au-Ag vein deposits: evidence from lithophile-element systematics of the Hollinger-McIntyre and Buffalo Ankerite deposits, Timmins	755-781
Mario Bergeron Distribution et comportement du bore dans la croûte océanique	782-790
Martine Savard and Pierre-André Bourque Diagenetic evolution of a Late Silurian reef platform, Gaspé Basin, Quebec, based on cathodoluminescence petrography	791-806
Paul R. Carlson, Ross D. Powell, and Douglas M. Rearic Turbidity-current channels in Queen Inlet, Glacier Bay, Alaska	807-820
D. T. A. Symons and M. R. Wellings Paleomagnetism of the Eocene Kamloops Group and the cratonization of Terrane I of the Canadian Cordillera	821-828
M. Bardoux and E. Irving Paleomagnetism of Eocene rocks of the Kelowna and Castlegar areas, British Columbia: studies in determining paleohorizontal	829-844

NOTE

J. C. Mareschal, C. Pinet, C. Gariépy, C. Jaupart, G. Bienfait, G. Dalla Coletta, J. Jolivet, and R. Lapointe New heat flow density and radiogenic heat production data in the Canadian Shield and the Quebec Appalachians	845-852
---	---------

MAY / MAI

ARTICLES

I. Asudeh, D. A. Forsyth, R. Stephenson, A. Embry, H. R. Jackson, and D. White Crustal structure of the Canadian polar margin: results of the 1985 seismic refraction survey	853-866
A. R. Miller, G. L. Cumming, and D. Krstic U-Pb, Pb-Pb, and K-Ar isotopic study and petrography of uraniferous phosphate-bearing rocks in the Thelon Formation, Dubawnt Group, Northwest Territories, Canada	867-880

T. Skwara and E. G. Walker Extinct muskox and other additions to the Late Pleistocene Riddell Local Fauna, Saskatoon, Canada	881–893
Anne Andrew and Colin I. Godwin Lead- and strontium-isotope geochemistry of Paleozoic Sicker Group and Jurassic Bonanza Group volcanic rocks and Island Intrusions, Vancouver Island, British Columbia	894–907
Anne Andrew and Colin I. Godwin Lead- and strontium-isotope geochemistry of the Karmutsen Formation, Vancouver Island, British Columbia	908–919
Anne Andrew and Colin I. Godwin Lead- and strontium-isotope geochemistry of the Tertiary Catface intrusions and related mineralization, Vancouver Island, British Columbia	920–926
M. Meghan Miller and Bingquan Cui Submarine-fan characteristics and dual sediment provenance, Lower Carboniferous Bragdon Formation, eastern Klamath terrane, California	927–940
A. L. Washburn Near-surface soil displacement in sorted circles, Resolute area, Cornwallis Island, Canadian High Arctic	941–955
D. B. Clarke, B. I. Cameron, G. K. Muecke, and J. L. Bates Early Tertiary basalts from the Labrador Sea floor and Davis Strait region	956–968
W. H. Mathews Neogene Chilcotin basalts in south-central British Columbia: geology, ages, and geomorphic history	969–982
W. M. Schwerdtner, J. G. Torrance, and J. T. van Berkel Pattern of apparent total strain in the bedded anhydrite cap of a folded salt wall	983–992
Francis Lucazeau and Hammed Ben Dhia Preliminary heat-flow density data from Tunisia and the Pelagian Sea	993–1000
H. O. Cookenboo and R. M. Bustin Jura-Cretaceous (Oxfordian to Cenomanian) stratigraphy of the north-central Bowser Basin, northern British Columbia	1001–1012
Jonathan R. Devaney and Howard R. Williams Evolution of an Archean subprovince boundary: a sedimentological and structural study of part of the Wabigoon–Quetico boundary in northern Ontario	1013–1026
E. Hegner, T. K. Kyser, and L. Hulbert Nd, Sr, and O isotopic constraints on the petrogenesis of mafic intrusions in the Proterozoic Trans-Hudson Orogen of central Canada	1027–1035
Stephen J. Godfrey and Robert B. Holmes A tetrapod lower jaw from the Pennsylvanian (Westphalian A) of Nova Scotia	1036–1040
Claude Hillaire-Marcel et Christiane Causse Chronologie Th/U des concrétions calcaires des varves du lac glaciaire de Deschaillons (Wisconsinien inférieur)	1041–1052
D. D. Hogarth and J. C. Roddick Discovery of Martin Frobisher's Baffin Island "ore" in Ireland	1053–1060

NOTES

Ron K. Pickerill and Paul F. Williams Deep burrowing in the early Palaeozoic deep sea: examples from the Cambrian(?) – Early Ordovician Meguma Group of Nova Scotia	1061–1068
Karen St. Seymour, Andrew Turek, Ronald Doig, Stephen Kumarapeli, and Robert Fogal First U–Pb zircon ages of granitoid plutons from the La Grande greenstone belt, James Bay area, New Quebec	1068–1073

DISCUSSIONS

Craig T. Bishop and John P. Coakley Stratigraphy of the Sixteen Mile Creek lagoon, and its implications for Lake Ontario water levels: Discussion	1074–1076
J. E. Flint, R. W. Dalrymple, and J. J. Flint Stratigraphy of the Sixteen Mile Creek lagoon, and its implications for Lake Ontario water levels: Reply	1076–1078
P. F. Karrow Last interglacial sediments of the Don Valley Brickyard, Toronto, Canada, and their paleoenvironmental significance: Discussion	1078–1082
N. Eyles and B. M. Clark Last interglacial sediments of the Don Valley Brickyard, Toronto, Canada, and their paleoenvironmental significance: Reply	1083–1086

ERRATUM

Ghislain Tourigny, Claude Hubert, Alex C. Brown, and Robert Crépeau Erratum: Structural control of gold mineralization at the Bousquet mine, Abitibi, Quebec	1087
---	------

JUNE/JUIN

ARTICLES

George R. Dix and Noel P. James Stratigraphy and depositional environments of the Upper Mississippian Codroy Group: Port au Port Peninsula, western Newfoundland	1089–1100
A. Mauffret, D. Mougenot, P. R. Miles, and J. A. Malod Cenozoic deformation and Mesozoic abandoned spreading centre in the Tagus Abyssal Plain (west of Portugal): results of a multichannel seismic survey	1101–1123
Karen E. Carter Grenville orogenic affinities in the Red Mountain area, Llano Uplift, Texas	1124–1135

Renaud Caby, Uranie Andreopoulos-Renaud, and Christian Pin Late Proterozoic arc-continent and continent-continent collision in the pan-African trans-Saharan belt of Mali	1136-1146
D. G. F. Long Kennedy Channel Formation: key to the early history of the Franklinian continental margin, central eastern Ellesmere Island, Arctic Canada	1147-1159
Ian D. Clark, Peter Fritz, and Jack G. Souther Geochemistry and isotope hydrogeology of the Mount Edziza - Mess Creek geothermal area	1160-1171
James M. Hall, Charles C. Walls, and Jing-Sui Yang Constructional features of the Troodos ophiolite and implications for the distribution of orebodies and the generation of oceanic crust	1172-1184
Sylvain Desbiens and Pierre J. Lespérance Stratigraphy of the Ordovician of the Lac Saint-Jean and Chicoutimi outliers, Quebec	1185-1202
William A. Hessin <i>Ceraurus</i> and related trilobites from the Middle Ordovician Bobcaygeon Formation of south-central Ontario, Canada	1203-1219
Alfred C. Lenz Silurian (Wenlock) brachiopods from the southern Mackenzie Mountains, Northwest Territories	1220-1233
Gao Keqin Pareiasaurs from the Upper Permian of north China	1234-1240
J. V. Barrie and B. D. Bornhold Surficial geology of Hecate Strait, British Columbia continental shelf	1241-1254
Lars E. Fähræus and C. Christopher Ryley Multielement species of <i>Misikella</i> Kozur and Mock, 1974 and <i>Axiothea</i> n.gen. (Conodonta) from the Mamonia Complex (Upper Triassic), Cyprus	1255-1263
C. Cocirta, J. B. Orsini et C. Coulon Exemples de mélange de magmas en contexte plutonique : les enclaves des tonalites-granodiorites du massif de Bono (Sardaigne septentrionale)	1264-1281
J. Dostal, R. A. Wilson, and J. D. Keppie Geochemistry of Siluro-Devonian Tobique volcanic belt in northern and central New Brunswick (Canada): tectonic implications	1282-1296
Georgia Pe-Piper, R. F. Cormier, and David J. W. Piper The age and significance of Carboniferous plutons of the western Cobequid Highlands, Nova Scotia	1297-1307
Po C. Tsui, D. M. Cruden, and S. Thomson Ice-thrust terrains and glaciotectionic settings in central Alberta	1308-1318
NOTE	
Philip J. Currie The first records of <i>Elmisaurus</i> (Saurischia, Theropoda) from North America	1319-1324

JULY/JUILLET

ARTICLES

V. M. Levson and N. W. Rutter Late Quaternary stratigraphy, sedimentology, and history of the Jasper townsite area, Alberta, Canada	1325-1342
Stuart S. Sumida New information on the pectoral girdle and vertebral column in <i>Lupeosaurus</i> (Reptilia, Pelycosauria)	1343-1349
G. L. Cumming Alberta bolide of June 1, 1982: interpretation of photographic and seismic records	1350-1355
A. D. Fowler and L. S. Jensen Quantitative trace-element modelling of the crystallization history of the Kinojévis and Blake River groups, Abitibi Greenstone Belt, Ontario	1356-1367
Derek J. Thorkelson Eocene sedimentation and volcanism in the Fig Lake Graben, southwestern British Columbia	1368-1373
P. Stephen Kumarapeli, Greg R. Dunning, Hillar Pintson, and Jim Shaver Geochemistry and U-Pb zircon age of comenditic metafelsites of the Tibbit Hill Formation, Quebec Appalachians	1374-1383
Mark B. Goodwin and Alan L. Deino The first radiometric ages from the Judith River Formation (Upper Cretaceous), Hill County, Montana	1384-1391
B. J. Todd and I. Reid The continent-ocean boundary south of Flemish Cap: constraints from seismic refraction and gravity	1392-1407
R. H. Sutcliffe, J. M. Sweeny, and A. D. Edgar The Lac des Iles Complex, Ontario: petrology and platinum-group-elements mineralization in an Archean mafic intrusion	1408-1427
H. L. Gibson, D. H. Watkinson, and C. D. A. Comba Subaqueous phreatomagmatic explosion breccias at Buttercup Hill, Noranda, Quebec	1428-1439
R. A. Kostaschuk, M. A. Church, and J. L. Luternauer Bedforms, bed material, and bedload transport in a salt-wedge estuary: Fraser River, British Columbia	1440-1452
Jean David and Jean Lajoie Sedimentology of an Archean submarine channel-fill deposit in the Abitibi greenstone belt of Canada	1453-1462
Christian de Kimpe Formation de phyllosilicates dans les roches carbonatées cristallines de La Mauricie, Québec	1463-1473
Alicé S. Davis, Leda-Beth G. Pickthorn, Tracy L. Vallier, and Michael S. Marlow Petrology and age of volcanic-arc rocks from the continental margin of the Bering Sea: implications for Early Eocene relocation of plate boundaries	1474-1490

- Jack M. Callaway and Donald B. Brinkman** Ichthyosaurs (Reptilia, Ichthyosauria) from the Lower and Middle Triassic Sulphur Mountain Formation, Wapiti Lake area, British Columbia, Canada 1491–1500

NOTES

- John S. Peel** A Lower Cambrian *Eotebenna* (Mollusca) from Arctic North America 1501–1503
John R. Montgomery and John V. Ross A note on the Quesnel Lake Gneiss, Caribou Mountains, British Columbia 1503–1508

AUGUST/AOÛT

ARTICLES

- J. Duncan Keppie and R. D. Dallmeyer** $^{40}\text{Ar}/^{39}\text{Ar}$ mineral ages from Kellys Mountain, Cape Breton Island, Nova Scotia: implications for the tectonothermal evolution of the Avalon composite terrane 1509–1516
F. Marillier and J. Verhoef Crustal thickness under the Gulf of St. Lawrence, northern Appalachians, from gravity and deep seismic data 1517–1532
L. Schiøtte, W. Compston, and D. Bridgwater Ion probe U–Th–Pb zircon dating of polymetamorphic orthogneisses from northern Labrador, Canada 1533–1556
Ming-ko Woo and Peter D. diCenzo Hydrology of small tributary streams in a subarctic wetland 1557–1566
P. H. Reynolds $^{40}\text{Ar}/^{39}\text{Ar}$ dating of the Mealy dykes of Labrador: paleomagnetic implications 1567–1573
Scott W. Hassler and Bruce M. Simonson Deposition and alteration of volcanoclastic strata in two large, early Proterozoic iron-formations in Canada 1574–1585
Michael F. McGroder Structural geometry and kinematic evolution of the eastern Cascades foldbelt, Washington and British Columbia 1586–1602
E. G. Nisbet Some northern sources of atmospheric methane: production, history, and future implications 1603–1611
T. P. Poulton and J. D. Aitken The Lower Jurassic phosphorites of southeastern British Columbia and terrane accretion to western North America 1612–1616
Daniel J. Kontak and Paul K. Smith Sulphur isotopic composition of sulphides from the Beaver Dam and other Meguma-Group-hosted gold deposits, Nova Scotia: implications for genetic models 1617–1629
M. P. Cunningham and R. St J. Lambert Petrochemistry of the Yellowknife volcanic suite at Yellowknife, N.W.T. 1630–1646
G. Ranalli, R. L. Brown, and R. Bosdachin A geodynamic model for extension in the Shuswap core complex, southeastern Canadian Cordillera 1647–1653

NOTE

- David A. Coyle** A method of sampling clast-rich laminated diamictites for magnetic analyses 1654–1656

SEPTEMBER/SEPTEMBRE

ARTICLES

- Harry F. L. Williams and Michael C. Roberts** Holocene sea-level change and delta growth: Fraser River delta, British Columbia 1657–1666
Aleksis Dreimanis, Elsbet Liivrand, and Anto Raukas Glacially redeposited pollen in tills of southern Ontario, Canada 1667–1676
William H. Mathews, J. Ross Mackay, and Glenn E. Rouse Pleistocene geology and geomorphology of the Smoking Hills Upland and lower Horton River Arctic coast of mainland Canada 1677–1687
Richard A. Stern, Gilbert N. Hanson, and Steven B. Shirey Petrogenesis of mantle-derived, LILE-enriched Archean monzodiorites and trachyandesites (sanukitoids) in southwestern Superior Province 1688–1712
D. J. Mackie, R. M. Clowes, S. A. Dehler, R. M. Ellis, and P. Morel-à-l'Huissier The Queen Charlotte Islands refraction project. Part II. Structural model for transition from Pacific plate to North American plate 1713–1725
Michael J. Melchin Llandovery graptolite biostratigraphy and paleobiogeography, Cape Phillips Formation, Canadian Arctic Islands 1726–1746
F. Corfu, T. E. Krogh, Y. Y. Kwok, and L. S. Jensen U–Pb zircon geochronology in the southwestern Abitibi greenstone belt, Superior Province 1747–1763
Michel Malo and Jacques Béland Acadian strike-slip tectonics in the Gaspé region, Quebec Appalachians 1764–1777
D. T. A. Symons Paleomagnetism of the 1.1 Ga Lackner Lake Complex and tectonics of the Kapuskasing Structural Zone 1778–1783
C. W. Jefferson and R. R. Parrish Late Proterozoic stratigraphy, U–Pb zircon ages, and rift tectonics, Mackenzie Mountains, northwestern Canada 1784–1801

NOTE

Kaustuv Roy and Lars E. Fåhræus Tremadocian (Early Ordovician) nauplius-like larvae from the Middle Arm Point Formation, Bay of Islands, western Newfoundland

1802–1806

Late Quaternary Paleohydrology of Canada
Paléohydrologie du Quaternaire supérieur au Canada

Special Session 14 of the XIIth International Congress of INQUA

14^e session spéciale du XII^e Congrès international de l'INQUA

August 3, 1987 / Le 3 août 1987
 Ottawa, Ont., Canada

- Michael Church** IGCP Project 158: Paleohydrology of the temperate zone during the last 15 000 years: Introduction / Projet 158 du PICG : Paléohydrologie de la zone tempérée durant les derniers 15 000 ans : Introduction 1809–1810
- Rolf W. Mathewes and Miriam King** Holocene vegetation, climate, and lake-level changes in the Interior Douglas-fir Biogeoclimatic Zone, British Columbia 1811–1825
- Charles E. Schweger and Michael Hickman** Holocene paleohydrology of central Alberta: testing the general-circulation-model climate simulations 1826–1833
- W. F. Rannie, L. H. Thorleifson, and J. T. Teller** Holocene evolution of the Assiniboine River paleochannels and Portage la Prairie alluvial fan 1834–1841
- J. M. Weninger and J. H. McAndrews** Late Holocene aggradation in the lower Humber River valley, Toronto, Ontario 1842–1849
- T. W. D. Edwards and J. H. McAndrews** Paleohydrology of a Canadian Shield lake inferred from ¹⁸O in sediment cellulose 1850–1859

OCTOBER/OCTOBRE

ARTICLES

- Tim A. de Freitas** Silurian *Archaeoscyphia* from the Canadian Arctic: a case for simplified generic taxonomy in the anthaspidellid lithistids (Porifera) 1861–1879
- Alexander D. McCracken and Godfrey S. Nowlan** Conodont paleontology and biostratigraphy of Ordovician carbonates and petroliferous carbonates on Southampton, Baffin, and Akpatok islands in the eastern Canadian Arctic 1880–1903
- K. L. Buchan and J. P. Hodych** Early Silurian paleopole for redbeds and volcanics of the King George IV Lake area, Newfoundland 1904–1917
- D. A. Leckie and R. J. Cheel** The Cypress Hills Formation (Upper Eocene to Miocene): a semi-arid braidplain deposit resulting from intrusive uplift 1918–1931
- Alain Tremblay, Pierre St-Julien et Jean-Yves Labbé** Mise à l'évidence et cinématique de la faille de La Guadeloupe, Appalaches du sud du Québec 1932–1943
- Donald S. Sweetkind and Ian J. Duncan** Fission-track evidence for Cenozoic uplift of the Nelson batholith, southeastern British Columbia 1944–1952
- Edward J. Hickin** Contemporary Squamish River sediment flux to Howe Sound, British Columbia 1953–1963
- Douglas J. Cant and Glen S. Stockmal** The Alberta foreland basin: relationship between stratigraphy and Cordilleran terrane-accretion events 1964–1975
- Frank Fueten and Pierre-Yves F. Robin** Structural petrology along a transect across the Thompson Belt, Manitoba: dip slip at the western Churchill–Superior boundary 1976–1989
- Arnaud Héquette and Philip R. Hill** Late Quaternary seismic stratigraphy of the inner shelf seaward of the Tuktoyaktuk Peninsula, Canadian Beaufort Sea 1990–2002
- C. Riediger, F. Goodarzi, and R. W. Macqueen** Graptolites as indicators of regional maturity in lower Paleozoic sediments, Selwyn Basin, Yukon and Northwest Territories, Canada 2003–2015
- Derek J. Thorkelson and Glenn E. Rouse** Revised stratigraphic nomenclature and age determinations for mid-Cretaceous volcanic rocks in southwestern British Columbia 2016–2031
- Christian V. Pitre and Jean M. Richardson** Paragenesis of veins of the Duck Pond tin prospect, Meguma Group, East Kemptville, Nova Scotia 2032–2043
- Jean M. Richardson, Keith Bell, John Blenkinsop, and David H. Watkinson** Rb–Sr age and geochemical distinctions between the Carboniferous tin-bearing Davis Lake complex and the Devonian South Mountain batholith, Meguma Terrane, Nova Scotia 2044–2061

Colleen G. Elliott, Christopher R. Barnes, and Paul F. Williams Southwest New World Island stratigraphy: new fossil data, new implications for the history of the Central Mobile Belt, Newfoundland	2062–2074
Yves Michaud, Jean-Claude Dionne, and Larry D. Dyke Frost bursting: a violent expression of frost action in rock	2075–2080
P. H. Reynolds, R. A. Jamieson, S. M. Barr, and R. P. Raeside An $^{40}\text{Ar}/^{39}\text{Ar}$ study of the Cape Breton Highlands, Nova Scotia: thermal histories and tectonic implications	2081–2091
Jeffrey P. Schmok and Garry K. C. Clarke Lacustrine sedimentary record of ice-dammed Neoglacial Lake Alsek	2092–2105
J. V. Gregory Lynch Hydrothermal alteration, veining, and fluid-inclusion characteristics of the Kalzas wolframite deposit, Yukon	2106–2115
Paul R. Wittbrodt, David B. Stone, and Donald L. Turner Paleomagnetism and geochronology of St. Matthew Island, Bering Sea	2116–2129
Peter U. Clark, Susan K. Short, Kerstin M. Williams, and John T. Andrews Late Quaternary chronology and environments of Square Lake, Torngat Mountains, Labrador	2130–2144
P. K. Sims, W. R. Van Schmus, K. J. Schulz, and Z. E. Peterman Tectono-stratigraphic evolution of the Early Proterozoic Wisconsin magmatic terranes of the Penokean Orogen	2145–2158
A. P. Nutman, B. J. Fryer, and D. Bridgwater The early Archaean Nulliak (supracrustal) assemblage, northern Labrador	2159–2168

NOTES

Catherine Souch New radiocarbon dates for early deglaciation from the southeastern Coast Mountains of British Columbia	2169–2171
Kenneth M. Rood and Edward J. Hickin Suspended-sediment concentration and calibre in relation to surface-flow structure in Squamish River estuary, southwestern British Columbia	2172–2176

NOVEMBER/NOVEMBRE

ARTICLES

Colin L. Jacobs Sedimentary processes along Flemish Pass, offshore eastern Canada: a GLORIA and high-resolution seismic reconnaissance	2177–2185
Jacques Locat and Pierre Gélinas Infiltration of de-icing road salts in aquifers: the Trois-Rivières-Ouest case, Quebec, Canada	2186–2193
John K. Park, Donald K. Norris, and André Larochelle Paleomagnetism and the origin of the Mackenzie Arc of north-western Canada	2194–2203
Brian Jones The role of microorganisms in phytokarst development on dolostones and limestones, Grand Cayman, British West Indies	2204–2213
J. Dostal, G. D. Jackson, and A. Galley Geochemistry of Neohelikian Nauyat plateau basalts, Borden rift basin, north-western Baffin Island, Canada	2214–2223
Vicki L. Hansen, James K. Mortensen, and Richard L. Armstrong U–Pb, Rb–Sr, and K–Ar isotopic constraints for ductile deformation and related metamorphism in the Teslin suture zone, Yukon–Tanana terrane, south-central Yukon	2224–2235
Lisa E. Osterman and Alan R. Nelson Latest Quaternary and Holocene paleoceanography of the eastern Baffin Island continental shelf, Canada: benthic foraminiferal evidence	2236–2248
Stephen R. Hicock, Fridrik J. Kristjánsson, and David R. Sharpe Carbonate till as a soft bed for Pleistocene ice streams on the Canadian Shield north of Lake Superior	2249–2254
B. D. Loncarevic, S. M. Barr, R. P. Raeside, C. E. Keen, and F. Marillier Northeastern extension and crustal expression of terranes from Cape Breton Island, Nova Scotia, based on geophysical data	2255–2267
Jean-Yves Labbé et Pierre St-Julien Failles de chevauchement acadiennes dans la région de Weedon, Estrie, Québec	2268–2277
G. Murthy, C. Gower, M. Tubrett, and R. Pätzold Paleomagnetism and geochemistry of Carboniferous Sandwich Bay dykes from coastal Labrador	2278–2291
Stephen R. Westrop Facies anatomy of an Upper Cambrian grand cycle: Bison Creek and Mistaya formations, southern Alberta	2292–2304
Trygve Höy The age, chemistry, and tectonic setting of the Middle Proterozoic Moyie sills, Purcell Supergroup, southeastern British Columbia	2305–2317
P. I. Abell, J. McClory, H. E. Hendry, and K. L. Wheatley Stratigraphic variations in carbon and oxygen isotopes in the dolostone of the Carswell Formation (Proterozoic) of northern Saskatchewan	2318–2326
Mario Bergeron et Yves Harrison Le transport chimique de l'or dans les environnements de surface : formation d'un colloïde et complexation organique	2327–2332
J. Victor Owen Determination of the finite-strain ellipsoid from deformed porphyroblastic mineral aggregates and preferentially oriented feldspars in a mylonitized metamafic dyke	2333–2340
Nancy A. Van Wagoner, Peta J. Mudie, Flona E. Cole, and Graham Daborn Siliceous sponge communities, biological zonation, and Recent sea-level change on the Arctic margin: Ice Island results	2341–2355

- Michael R. Hudec and Gregory A. Davis** Out-of-sequence thrust faulting and duplex formation in the Lewis thrust system, Spot Mountain, southeastern Glacier National Park, Montana 2356–2364
- S. M. Carbotte, J. M. Dixon, E. Farrar, E. E. Davis, and R. P. Riddihough** Geological and geophysical characteristics of the Tuzo Wilson Seamounts: implications for plate geometry in the vicinity of the Pacific – North America – Explorer triple junction 2365–2384
- P. A. Camfield, J. C. Gupta, A. G. Jones, R. D. Kurtz, D. H. Krentz, J. A. Ostrowski, and J. A. Craven** Electromagnetic sounding and crustal electrical conductivity in the region of the Wopmay Orogen, Northwest Territories, Canada 2385–2395

NOTES

- Michel Belles-Isles** *Yvonaspis*, nouveau genre d'Osteostraci (Vertebrata, Agnatha) du Dévonien (Emsien – Eifélien) des Grès de Gaspé (Québec, Canada) 2396–2401
- D. T. A. Symons** Age of the Firesand River carbonatite complex from paleomagnetism 2401–2405

DECEMBER/DÉCEMBRE

Note of appreciation / Note de reconnaissance

i–ii

ARTICLES

- Alain Tremblay, Réjean Hébert et Mario Bergeron** Le Complexe d'Ascot des Appalaches du sud du Québec : pétrologie et géochimie 2407–2420
- Joseph B. Whalen** The Topsails igneous suite, western Newfoundland: an Early Silurian subduction-related magmatic suite? 2421–2434
- E. Asselin, A. Achab et P. A. Bourque** Chitinozoaires du Silurien inférieur dans la région de la baie des Chaleurs en Gaspésie, Québec, Canada 2435–2449
- Anne de Vernal, Claire Goyette et Cyril G. Rodrigues** Contribution palynostratigraphique (dinokystes, pollen et spores) à la connaissance de la mer de Champlain : coupe de Saint-Césaire, Québec 2450–2464
- O. Rouer, H. Lapierre, C. Coulon, and A. Michard** New petrological and geochemical data on mid-Paleozoic island-arc volcanics of northern Sierra Nevada, California: evidence for a continent-based island arc 2465–2478
- Jérôme Surmont** Paléomagnétisme dans les Hellénides internes : analyse des aimantations superposées par la méthode des cercles de réaimantation 2479–2494
- Cecilia L. Jenkins, Pierre Trudel, and Guy Perrault** Progressive hydrothermal alteration associated with gold mineralization of the Zone 1 intrusion of the Callahan property, Val-d'Or region, Quebec 2495–2506
- K. P. Gillen and M. E. Evans** New geomagnetic paleosecular-variation results from the Old Crow Basin, Yukon Territory, and their use in stratigraphic correlation 2507–2511
- Gregory C. Finn** Rb–Sr geochronology of the Archaean Maggo gneiss from the Hopedale block, Nain Province, Labrador 2512–2522
- Y. L. Lau** Modelling of single-grain and flocc settling 2523–2528
- Etienne Deloule, Clément Gariépy, and Bernard Dupré** Metallogenesis of the Abitibi greenstone belt of Canada: a contribution from the analysis of trace lead in sulfide minerals 2529–2540
- G. Murthy, C. F. Gower, M. Tubrett, and R. Pätzold** Paleomagnetism of pre-Grenvillian mafic intrusions from the Grenville Province, southeast Labrador 2541–2555
- Joane Bérubé, Garry C. Rogers, Robert M. Ellis, and Elizabeth O. Hasselgren** A microseismicity study of the Queen Charlotte Islands region 2556–2566
- Kenneth B. S. Burke, Robert J. Wetmiller, Maurice Lamontagne, M. Jeffrey Carr, and Craig Hickey** Microearthquake survey of the Miramichi, New Brunswick, epicentral region, 1985 2567–2577
- Donald S. Lemmen** The last glaciation of Marvin Peninsula, northern Ellesmere Island, High Arctic, Canada 2578–2590
- B. J. Todd and C. E. Keen** Temperature effects and their geological consequences at transform margins 2591–2603
- Mark V. H. Wilson and Yael Chalifa** Fossil marine actinopterygian fishes from the Kaskapau Formation (Upper Cretaceous: Turonian) near Watino, Alberta 2604–2620
- D. G. F. Long** Ella Bay Formation: Early Cambrian shelf differentiation in the Franklinian basin, central eastern Ellesmere Island, Arctic Canada 2621–2635
- L. Schiøtte, W. Compston, and D. Bridgwater** U–Th–Pb ages of single zircons in Archaean supracrustals from Nain Province, Labrador, Canada 2636–2644
- P. G. Anderson and C. Jay Hodgson** The structure and geological development of the Erickson gold mine, Cassiar District, British Columbia, with implications for the origin of mother-lode-type gold deposits 2645–2660
- François Robert** Internal structure of the Cadillac tectonic zone southeast of Val d'Or, Abitibi greenstone belt, Quebec 2661–2675
- Louis R. Bernier and Wallace H. MacLean** Auriferous chert, banded iron formation, and related volcanogenic hydrothermal alteration, Atik Lake, Manitoba 2676–2690

Goetz G. R. Buchbinder Shear-wave splitting and anisotropy in the Charlevoix seismic zone, Quebec, in 1985	2691–2696
H. G. Miller and J. Tuach Gravity and magnetic signatures of the Ackley Granite Suite, southeastern Newfoundland: implications for magma emplacement	2697–2709
John D. Greenough, Lois M. Jones, and David J. Mossman Petrochemical and stratigraphic aspects of North Mountain basalt from the north shore of the Bay of Fundy, Nova Scotia, Canada	2710–2717

NOTES

C. Causse and J.-S. Vincent Th–U disequilibrium dating of Middle and Late Pleistocene wood and shells from Banks and Victoria islands, Arctic Canada	2718–2723
Ross K. Stevenson, P. J. Patchett, and R. F. Martin Sm–Nd isochron from a granodiorite–granite complex in the Portman Lake region, Northwest Territories	2724–2729
Tim T. Tokaryk and Paul C. James <i>Cimolopteryx</i> sp. (Aves, Charadriiformes) from the Frenchman Formation (Maastrichtian), Saskatchewan	2729–2730
H. Mann and W. S. Fyfe Metal uptake and Fe-, Ti-oxide biomineralization by acidophilic microorganisms in mine-waste environments, Elliot Lake, Canada	2731–2735

DISCUSSIONS

L. W. Sobczak Stratigraphy and tectonic significance of Cretaceous volcanism in the Queen Elizabeth Islands, Canadian Arctic Archipelago: Discussion	2736–2739
A. F. Embry and K. G. Osadetz Stratigraphy and tectonic significance of Cretaceous volcanism in the Queen Elizabeth Islands, Canadian Arctic Archipelago: Reply	2740–2741
D. R. Burrows and R. A. Jemielita Lithophile-element systematics of Archean greenstone belt Au–Ag vein deposits: implications for source processes: Discussion	2741–2743
R. Kerrich and B. J. Fryer Lithophile-element systematics of Archean greenstone belt Au–Ag vein deposits: implications for source processes: Reply	2744–2748
Alan Ruffman First report of Ordovician (Caradoc–Ashgill) palynomorphs from Orphan Knoll, Labrador Sea: Discussion	2749–2751
Author index for Volume 26 / Index des auteurs pour volume 26	AI-1–AI-9
Subject index for Volume 26 / Index des matières pour volume 26	SI-1–SI-27
Contents for Volume 26 / Sommaire pour volume 26	v–xiv

